

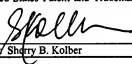
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Greg B. Hale, et al. Examiner: Scott Beliveau
Serial No.: 10/692,513 Group Art Unit: 2611
Filed: October 24, 2003 Docket No.: 54317-022501
Title: STREAMING OF DIGITAL DATA TO A PORTABLE DEVICE
Customer No.: 46560

CERTIFICATE OF TRANSMISSION

I hereby certify that this document is being transmitted electronically to the United States Patent and Trademark Office via the EFS Web e-Filing system on September 11, 2006.


Name: Sherry B. Kolber

**DECLARATION OF PRIOR INVENTION IN THE
UNITED STATES UNDER 37 C.F.R. § 1.131**

As below named inventors, we do hereby declare as follows:

1. This declaration establishes conception and diligence toward the reduction to practice of the invention(s) claimed in this application in the United States, prior to September 3, 2002.
2. All of the documents provided as exhibits to this declaration were created in the United States and/or memorialize events that took place in the United States.
3. This declaration is provided by Greg B. Hale, Phu V. Nguyen, and William G. Wiedefeld. We are the inventors for U.S. Patent Application Number 10/692,513.
4. Before the date of September 3, 2002, we worked on the development of a portable device that receives content data and displays the content data in synchronization with a media presentation. We were all employees of The Walt Disney Company at the time.

Serial No. 10/692,513

PATENT
Docket No. 54317-022501

5. This work is evidenced in a set of drawings prepared by Phu Nguyen dated April 10, 2002. A copy of the set of drawings is provided in Exhibit A. The drawings illustrate a portable device that can receive and/or send Infrared ("IR") messages from an IR emitter in conjunction with a viewer watching a media presentation. Further, the drawings illustrate an optical time code reader that determines time prompts to be transmitted in the IR messages so that the portable device can be synchronized with the media presentation.

6. This work is further evidenced by a patent disclosure form that we provided on April 19, 2002 to Don Wenskey, who was the in-house patent counsel for The Walt Disney Company at the time. A copy of the patent disclosure form and accompanying memorandum is provided in Exhibit B. The patent disclosure discusses the portable device being utilized in a synchronized manner with a presentation. The set of figures from Exhibit A were attached to and referenced in the patent disclosure form.

7. The evidence also establishes that we diligently pursued development of our invention and its actual or constructive reduction to practice from a date of no later than September 3, 2002, until October 25, 2002, the filing date of our U.S. Provisional Application Serial Number 60/421,255 to which our U.S. Utility Patent Application Serial Number 10/692,513 claims priority. After we contacted Don Wenskey, he asked the law firm of Greenberg Traurig to work with us in the preparation of the provisional patent application.

8. Our diligence towards reduction to practice is evidenced by an email communication dated September 19, 2002, from Chris Darrow to Don Wenskey. The email communication provides a status on the preparation of the provisional patent application. The attached table further shows pending action items for the matter titled "IR Streaming of Digital Data." A copy of the email communication and attachments is provided in Exhibit C.

9. Our diligence towards reduction to practice is further evidenced by an email communication dated October 14, 2002 to Margo Maddux, a Greenberg Traurig patent agent involved in drafting the provisional patent application. Copies of the email communication, including the attached invention summary are provided in Exhibit D.

Serial No. 10/692,513

PATENT
Docket No. 54317-022501

10. Our diligence towards reduction to practice is further evidenced by an email communication dated October 14, 2002 to Margo Maddux. Copies of the email communication, including an attached inventor's sketch are provided in Exhibit E.

11. Our diligence towards reduction to practice is further evidenced by an email communication dated October 14, 2002 to Margo Maddux. Copies of the email communication, including another attached inventor's sketch are provided in Exhibit F.

12. Our diligence towards reduction to practice is further evidenced by an email communication dated October 14, 2002 to Margo Maddux. Copies of the email communication, including another attached inventor's sketch are provided in Exhibit G.

13. Our diligence towards reduction to practice is further evidenced by an email communication dated October 23, 2002 to Margo Maddux regarding further. Copies of the email communication, including the attached marked up version of the provisional patent application are provided in Exhibit H.

14. Our diligence towards reduction to practice is further evidenced by an email communication dated October 23, 2002 to Margo Maddux. Copies of the email communication, including the attached marked up version of the provisional patent application are provided in Exhibit I.

15. We worked with Greenberg Traurig between September 3, 2002 and October 25, 2002 to prepare the provisional patent application that was ultimately filed on October 25, 2002. Accordingly, we diligently worked toward actual or constructive reduction to practice of our invention, subsequent to our conception thereof.

16. The integrity of The Walt Disney Company's records and schematics as provided has been maintained since at least April 19, 2002. These records and schematics have not been altered in any way following the date of each entry.

Serial No. 10/692,513

PATENT
Docket No. 54317-022501

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements or the like may jeopardize the validity of the application or any patent issuing thereon.

Date:

Sept 11, 2006
GREG B. HALE

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements or the like may jeopardize the validity of the application or any patent issuing thereon.

Date:

SEPT. 11, 2006
PHU V. NGUYEN

Serial No. 10/692,513

PATENT
Docket No. 54317-022501

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements or the like may jeopardize the validity of the application or any patent issuing thereon.

Date:

Sept. 11, 2006William G. Wiedefeld
WILLIAM G. WIEDEFELD

LA 126506592v1 8/28/2006

EXHIBIT A



Walt Disney World Co.

Ride & Show Engineering

P.O. Box 7,200 • Lake Ridge View, Frysburg 22310-1000 • (407) 834-7171

CALCULATION SHEET

OCT-11-02 FRI 17:06

PROJECT: IR Data Streaming
SUBJECT: IR speech for Theater (Movie)
ENGINEER: Phil Nauwens DEPT: DfE/74w

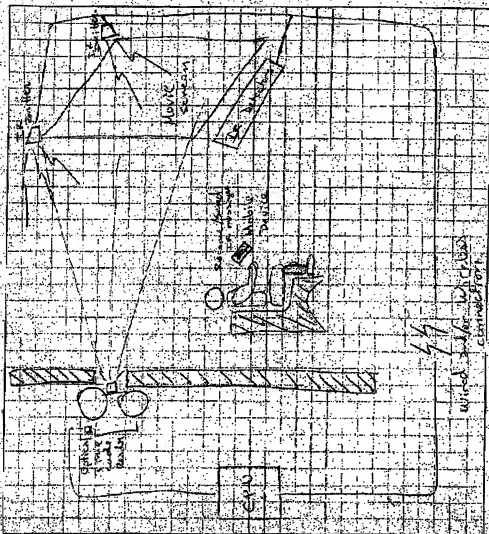
SUBJECT IR sketch for Thurgood (Mae)

ENGINEER Phyl Nansen DEPT. DEE/74W

CUSTOMER

SHEET NO.

DATE 4/10/02



united and for W.C. Clegg
connected for

PATENT Disclosure R.I.doc

April 25, 2002

Page 9 c1 11

P. 10



Ride & Show Engineering

P.O. Box 18,000 • Lake Buena Vista, Florida 32816-0000 • (407) 824-2000

CALCULATION SHEET

OCT-11-02 FRI 17:07

PROJECT RF Data Streaming
SUBJECT RF sketch for Theater (Movie)
ENGINEER Phu Nguyen DEPT DCE/74W

CUSTOMER _____
SHEET NO. _____
DATE 4/10/03

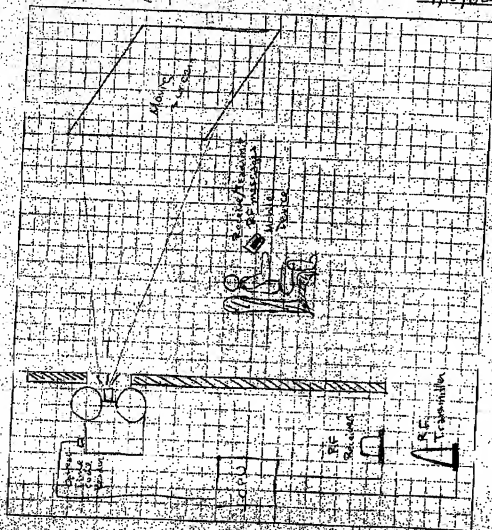


Figure 2

World Co.

Ride & Show Engineering

P.O. Box 13100 • 1401 Jolly Way, Port St. Lucie, FL 34950-0100 • 887-886-7674

CALCULATION SHEET

OCT-11-02 FRI 17:08

PROJECT IR Data Streaming

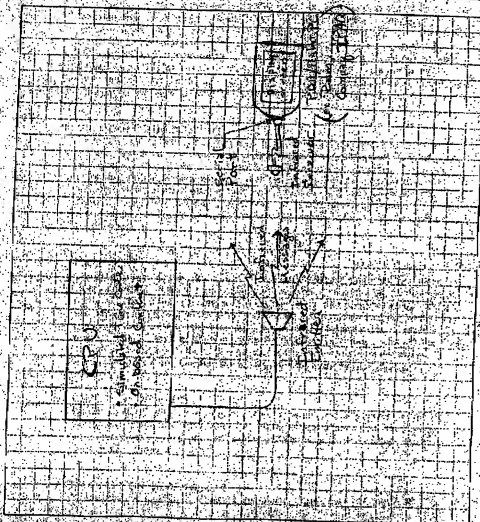
CUSTOMER _____

SUBJECT Software Test - Act Up

SHEET NO. _____

ENGINEER P. M. Bigney DEPT. DES/ITW

DATE 2/10/02



P. 12

EXHIBIT B



Walt Disney World Co.

Memorandum

To: Don Wensky

Date: ~~April 19, 2002~~

From: Phu Nguyen, P.E.

Phone: 407-824-6506

Subject: WDW Infrared Streaming Digital Data Patent Disclosure

CC: Greg Hale, Tom Craven

Enclosed are the completed and signed Patent Disclosure Statement and Invention Questionnaire for the WDW Infrared Streaming digital data technology. Please review for our meeting on Monday, April 22, 2002. I believe Tom Craven has set up a conference call for us to speak with you.

Attachments

Infrared and/or Radio Frequencies to stream digital data to portable devices in a mass audience or designated broadcast area

I. SUMMARY OF IDEA

Use of infrared (IR) emission and/or radio frequency (RF) transmission to stream data to a portable device for closed captioning, language translation for multi-cultural language groups, previews, games, control of devices and/or similar applications. The portable captioning device could be carried by a person and/or the device could be placed in a fixture for hands free use. Before or at the time of start of a presentation or presentations, the IR/RF system will start the transmission of data to the portable units. The transmission will synchronize the portable device with the presentation or presentations for captioning, language translation, previews, games, control of devices and/or similar applications. The portable device might be based on existing technologies such as mobile phone, personal digital assistant (PDA) or a combination of both mobile phone and PDA, a custom designed device specifically for this application, or an interactive device. This system can be combined with an existing audio streaming for the hearing impaired, descriptions for the blind and/or language translation. (example: Infrared streaming for Assistive Listening Systems)

II. PROBLEM TO BE SOLVED

Persons who have hearing loss may miss narratives, sound effects, music and other presentation related sound material and messages in live performances, films, television and special events. Persons who do not speak the language or languages used in the presentation will miss narratives and other related messages that are presented. The language barrier prevents many people from different cultures and languages from understanding, participating or interacting in the information being presented. Presentations often could use a method to provide interactivity between the audience and the presenter(s).

III. PRIOR ART

Captioning systems have been used in other venues including museums, theaters and other auditoriums to provide foreign language translation or captioning for the hearing impaired. These systems are either 1) 'open captioning' on a projected surface or large adjacent display area where the entire audience can see the captioning, or 2) reflective captioning using a transparent but reflective panel to display the text from a rear projection while allowing the viewer to see the display or performance through the panel, 3) hard-wired displays in the back of the seat in front of the viewer.

IV. OBJECT OF INVENTION

Provide a method of presenting random and/or synchronized information (narratives, translations, interactive games, control signal commands or other show related messages) to patrons of shows, movie theaters, exhibit halls/auditorium and/or designated areas through an unobtrusive device.

V. DESCRIPTION OF INVENTION

The hardware requirements of this system include: (see Figure 1 & Figure 2)

- 1) A time code reader (e.g. optical reader) capable of reading time codes from a show device. (e.g. film projector, show control computer or other media sources)
- 2) A central processing unit (CPU) will receive the time code signal from the reader and synchronize the content (e.g. text captioning, language translation, games and or other related applications) with the film and/or presentation. The central processing unit will have the capability to access the content. The content can reside on the internal memory as part of the central processing unit and/or as a removable memory media.
- 3) The CPU will deliver the synchronized data to the infrared emitters capable of delivering IR messages or control data to the portable device in an indoor/outdoor environment. (plurality: a low-powered licensed and/or non-licensed RF system can also be used to deliver the synchronized data to the portable device via an RF signal)
- 4) The portable display device will have sufficient internal and/or removable memory to allow storage of all data to be presented. The device will also contain infrared ports capable of receiving and/or emitting infrared messages. (plurality: The device could also contain a RF receiver and/or transmitter ports capable of receiving and transmitting RF messages.) The portable device will receive the IR signal and convert the signal to information that can be stored and/or displayed in sync with the presentation. The device may also contain the capability to receive and play audio such as Assistive Listening and/or audio language translations, or program material specific to the presentation.
- 5) The system could also recognize a show/presentation start or end. The system could then transmit random and/or synchronized information to the patrons possessing a device. This will allow the patrons to interact with the device while waiting for the show/presentation to start or after the show/presentation has ended.

VI. TEST DATA OR REDUCTION TO PRACTICE

Working prototypes of the central processing unit, emitter and receiver have been constructed by Walt Disney World Company © Design and Engineering. See Figure 3, attached drawings and software code. In this application, we chose to simulate the time code information to the CPU. The CPU then accesses on board content and delivers the synchronized data to the infrared emitters capable of delivering IR messages. A portable device receives the IR messages and converts the IR messages to presentable data. In this instance, the IR receiver is a modification to an existing device such as a PDA (ex: Palm) and/or a pocket PC (ex: Compaq iPAQ) that can store and/or immediately display the data. The IR receiver takes the IR signal from the emitter and translates it to an electronic signal for the serial port of the PDA and/or pocket PC. A terminal software program converts the electronic signal into data that is presented as text on the display screen.

VII. WHAT USE IS PLANNED FOR INVENTION

It is the Walt Disney Company's intention to: 1) make this technology commercially available for application in the movie theater for text captioning and language translation; 2) apply the technology to consumer products which can provide an interactive experience and 3) to provide a wireless link for control signals to equipment, devices or products which are used in public presentations.

VIII. RECORDS

See attachments:

IX. INVENTION QUESTIONNAIRE

Attach completed Invention Questionnaire

X. WITNESS AND DATE*

Inventor (1):

Print Name:

Phu V. Nguyen

Signature:

Phu V. Nguyen

Date:

April 19, 2002

Inventor (2):

Print Name:

William G. Wiedefeld

Signature:

William G. Wiedefeld

Date:

April 19, 2002

Inventor (3):

Print Name:

Greg B. Hale

Signature:

Date:

April 19, 2002

Inventor (4):

Print Name:

Signature:

Date:

READ AND UNDERSTOOD:

Witness (1):

[Signature] 4/19/02

Date:

Witness (2):

William B. Rothen

Date:

4-19-02

* When the invention is joint, all inventors must sign and date the disclosure letter.

EXHIBIT C

Kolber, Sherry (Secy-LA-IP)

From: Tapia, Pablo (Assoc-LA-IP)
Sent: Tuesday, September 05, 2006 1:07 PM
To: Kolber, Sherry (Secy-LA-IP)
Subject: FW: Status Update

Attachments: 33xw021.DOC

From: Darrow, Christopher (Shld-LA-IP)
Sent: Friday, August 18, 2006 6:35 PM
To: Tapia, Pablo (Assoc-LA-IP)
Subject: FW: Status Update

From: Darrow, Christopher (Shld-LA-IP)
Sent: Thursday, September 19, 2002 3:43 PM
To: Donald Wenskay (E-mail)
Cc: Maddux, Margo (PatAgt-LA-IP)
Subject: Status Update

Dear Don,

Attached is a status update on a number of matters we are working on for you. Soon we will be sending you patentability reports on these.

Best regards, Chris



33xw021.DOC (28 KB)

Disney Projects Status - September 19, 2002

021000 P-211DW	Living Seas Ride	Search initiated & received; analysis in progress
021100	Project Infinity	Search initiated & received; analysis in progress
021200 M-87DW	Adjustable Ride Constraint	Search initiated
021300 P-234DW	Polarized Light Value	Needed information located; search being initiated
021400 P-123DW	World Around Me Book	Waiting for information from inventor
021500	ETV Cell Phone	Search initiated & received; analysis in progress
021600 P-203DW	Enhanced TV Game (Liberate)	Received Provisional App; who will do prosecution?
021700	Increasing Contrast in Optical Systems	Search initiated 8/26
021800	Maximizing Sweet Spot	Search initiated 8/26
021900	IR Interactive Game Piece	Search initiated & received; analysis in progress
022000	Coded Sound Bursts	Search initiated
022100	Cell Phone Multimedia controller	Search done by client – in file
022200	Polarized Appearing and Disappearing Object System	Needed information located; search being initiated
022300 P-210DW	Wireless FastPass	Reviewing old FASTPASS search
022400	Instant Radio	Need to talk to inventor for more info
022500 P-206DW	IR Streaming of Digital Data	Missing information, file provisional app, telephone conference scheduled with inventor
022600	Animation Desk	Contacted inventor for more info

EXHIBIT D

Kolber, Sherry (Secy-LA-IP)

From: Nguyen, Phu [Phu.Nguyen@disney.com]
Sent: Monday, October 14, 2002 8:36 AM
To: Maddux, Margo (PatAgt-LA-IP)
Cc: Wenskay, Donald; Wiedefeld, William G; Nguyen, Phu
Subject: IR Streaming Patent Disclosure (email #1: pages 1-8)
Attachments: PATENT Disclosure R3 1-8.doc

Margo,

Per your request, I'm trying again to send you the file electronically since Bill was unable to do this from his computer. I hope that the same problem does not exist on my computer. I will break up the document into smaller sizes and sending them as attachments in 4 emails. I hope this works.

Regards,

Phu

<<PATENT Disclosure R3 1-8.doc>>

-----Original Message-----

From: Wiedefeld, William G.
Sent: Thursday, October 10, 2002 5:14 PM
To: madduxm@gtaw.com
Cc: Wenskay, Donald; Nguyen, Phu
Subject: FW: IR Streaming Patent Disclosure

Margo,

Attached is the most up-to-date version of the disclosure.

Bill Wiedefeld
Staff Engineer
WDPR Safety, Accessibility, & Advanced Technology
Voice: 407-824-7665
Pager: 407-945-9516 (Text page at www.arch.com)
Fax: 407-824-7403

-----Original Message-----

From: Nguyen, Phu
Sent: Thursday, May 30, 2002 5:18 PM
To: Wenskay, Donald
Cc: Craven, Tom; Wiedefeld, William G.; Nguyen, Phu
Subject: IR Streaming Patent Disclosure

Don,

Per our conversation this morning, I am forwarding you the email that Bill had sent back in April 26, 2002. The

9/5/2006

attached file is the latest revision (revision 3) and contains all of the points of discussion during our conference call with you on April 22. The Patent Disclosure Fax that we received from your office is based on an earlier draft (April 19, 2002) and does not contain the updates that make our technology unique. **Please use the attached file in preparation of the Provisional Patent Application.** You can contact me at the following phone number if you should have any further questions.

Regards,

Phu V. Nguyen, P.E.
Sr. Project Engineer
Phone: (407) 824-6506 (tie-line: 8273-6506)
Pager: (407) 945-0888

---This e-mail message is confidential, intended only for the named recipient(s) above and may contain information that is privileged, attorney work product or exempt from disclosure under applicable law. If you have received this message in error, or are not the named recipient (s), please immediately notify the sender at (407) 824-7665 and delete this e-mail message from your computer. Thank you. ---

Infrared and/or Radio Frequencies to stream digital data to portable devices in a mass audience or designated broadcast area.

I. SUMMARY OF IDEA

Use of infrared (IR) emission and/or radio frequency (RF) transmission to stream data to a portable device for closed captioning, language translation for multi-cultural language groups, previews, games, control of devices and/or similar applications. A person could carry the portable captioning device and/or the device could be placed in a fixture for hands free use. Before or at the time of start of a presentation or presentations, the IR/RF system will start the transmission of data to the portable units. The transmission will synchronize the portable device with the presentation or presentations for captioning, language translation, previews, games, control of devices and/or similar applications. The portable device might be based on existing technologies such as mobile phone, personal digital assistant (PDA) or a combination of both mobile phone and PDA, a custom designed device specifically for this application, or an interactive device. This system can be combined with an existing audio streaming for the hearing impaired, descriptions for the blind and/or language translation. (Example: Infrared streaming for Assistive Listening Systems)

II. PROBLEM TO BE SOLVED

Persons who have hearing loss may miss narratives, sound effects, music and other presentation-related sound material and messages in live performances, films, television and special events. Persons who do not speak the language or languages used in the presentation will miss narratives and other related messages that are presented. The language barrier prevents many people from different cultures and languages from understanding, participating or interacting in the information being presented.

Presentations often could use a method to provide interactivity between the audience and the presenter(s).

Existing systems are not aware of user preferences, such as the user's language, gender, age, etc.

Existing analog wireless audio systems suffer from signal loss and deterioration of the transmitted audio when the user moves relative to the infrared transmitter.

Existing digital wireless audio systems do not have provisions for mixing text or control data in the audio data stream.

Existing wireless data communication systems do not have the combined features of:

- Multiple users' devices simultaneously receiving identical data.
- Multiple users' devices remaining synchronized with the presentation(s).
- User devices able to receive different types of data, such as audio, animation control, text, etc. during a single transmission.
- User devices able to interact with the presentation, interact with the presenters, or interact with each other.

III. PRIOR ART

Captioning systems have been used in other venues including museums, theaters and other auditoriums to provide foreign language translation or captioning for the hearing impaired. These systems are either 1) 'open captioning' on a projected surface or large adjacent display area where the entire audience can see the captioning, or 2) reflective captioning using a transparent but reflective panel to display the text from a rear projection while allowing the viewer to see the display or performance through the panel, 3) hard-wired displays in the back of the seat in front of the viewer.

Wireless streaming systems have consisted of:

1. Modulated analog audio broadcasts. Examples include assistive listening systems and wireless headphones.
2. Digitized audio broadcasts. Examples include assistive listening systems and wireless headphones.
3. Short-range (often 1 meter or less) digital data transceivers typically used to exchange data between computers or between computers and peripherals. These systems do not synchronize multiple units.

IV. OBJECT OF INVENTION

Provide a method of presenting random and/or synchronized information (narratives, translations, interactive games, control signal commands or other show related messages) to patrons of shows, movie theaters, exhibit halls/auditorium and/or designated areas through an unobtrusive device.

Some possible user device implementations include:

1. A custom portable text display terminal, having a receiver, display controller, micro-controller, small amount of memory, and power source.
2. A PDA such as one of the Palm Pilot or Compaq iPaq series with a receiver and text display software.
3. A custom audio unit, having a receiver, digital-to-analog converter, audio amplifier, and speaker (one or more speakers, possibly mounted in a headphone.)
4. A talking toy or game.
5. A motorized animated toy or game.
6. A special effects unit, having some combination of lights, audio effects, or animations. The unit could be held by the user or mounted in the presentation space as a remotely controlled device.
7. A toy or game that receives content appropriate to the presentation, and also allows interaction with nearby units.
8. A digital map or way-finding unit.
9. A messaging system that allows the user to broadcast and receive data to and from nearby units.
10. A user identification unit that broadcasts user identity, preferences, or location to nearby units.

V. DESCRIPTION OF INVENTION

The hardware requirements of this system include: (see **Figure 1 & Figure 2**)

- 1) A time code reader (e.g. optical reader) capable of reading time codes from a show device. (e.g. film projector, show control computer or other media sources)
- 2) A central processing unit (CPU) will receive the time code signal from the reader and synchronize the content (e.g. text captioning, language translation, games and or

other related applications) with the film and/or presentation. The central processing unit will have the capability to access the content. The content can reside on the internal memory as part of the central processing unit and/or as a removable memory media.

- 3) The CPU will deliver the synchronized data to the infrared emitters capable of delivering IR messages or control data to the portable device in an indoor/outdoor environment. (plurality: a low-powered licensed and/or non-licensed RF system can also be used to deliver the synchronized data to the portable device via an RF signal)
- 4) The portable display device will have sufficient internal and/or removable memory to allow storage of all data to be presented. The device will also contain infrared ports capable of receiving and/or emitting infrared messages. (plurality: The device could also contain a RF receiver and/or transmitter ports capable of receiving and transmitting RF messages.) The portable device will receive the wireless signal and convert the signal to information that can be stored and/or displayed in sync with the presentation. The device may also contain the capability to receive and play audio such as Assistive Listening and/or audio language translations, or program material specific to the presentation, or control devices.
- 5) The system could also recognize a show/presentation start or end. The system could then transmit random and/or synchronized information to the patrons possessing a device. This will allow the patrons to interact with the device while waiting for the show/presentation to start or after the show/presentation has ended.

VI. TEST DATA OR REDUCTION TO PRACTICE

Working prototypes of the central processing unit, emitter and receiver have been constructed by Walt Disney World Company © Design and Engineering. See **Figure 3**, attached drawings and software code. In this application, we chose to simulate the time code information to the CPU. The CPU then accesses on board content and delivers the synchronized data to the infrared emitters capable of delivering IR messages. A portable device receives the IR messages and converts the IR messages to presentable data. In this instance, the IR receiver is a modification to an existing device such as a PDA (ex: Palm) and/or a pocket PC (ex: Compaq iPAQ) that can store and/or immediately display the data. The IR receiver takes the IR signal from the emitter and translates it to an electronic signal for the serial port of the PDA and/or pocket PC. A terminal software program converts the electronic signal into data that is presented as text on the display screen.

VII. WHAT USE IS PLANNED FOR INVENTION

It is the Walt Disney Company's intention to: 1) make this technology commercially available for application in the movie theater for text captioning and language translation; 2) apply the technology to consumer products which can provide an interactive experience and 3) to provide a wireless link for control signals to equipment, devices or products which are used in public presentations.

VIII. RECORDS

See attachments:

IX. INVENTION QUESTIONNAIRE

Attach completed Invention Questionnaire

X. WITNESS AND DATE*

Inventor Phu V. Nguyen Signature _____

Date _____

Inventor William G. Wiedefeld Signature _____

Date _____

Inventor Greg B. Hale Signature _____

Date _____

Inventor _____

Date _____

Inventor _____

Date _____

Inventor _____

Date _____

Inventor _____

Date _____

Inventor _____

Date _____

READ AND UNDERSTOOD:

Witness _____

Date _____

Witness _____

Date _____

* When the invention is joint, all inventors must sign and date the disclosure letter.

EXHIBIT E

Kolber, Sherry (Secy-LA-IP)

From: Nguyen, Phu [Phu.Nguyen@disney.com]
Sent: Monday, October 14, 2002 8:40 AM
To: Maddux, Margo (PatAgt-LA-IP)
Cc: Wenskay, Donald; Wiedefeld, William G; Nguyen, Phu
Subject: IR Streaming Patent Disclosure (email #2: page 10)
Attachments: PATENT Disclosure R3-10.doc

EMAIL #2

<<PATENT Disclosure R3-10.doc>>

=====

Margo,

Per your request, I'm trying again to send you the file electronically since Bill was unable to do this from his computer. I hope that the same problem does not exist on my computer. I will break up the document into smaller sizes and sending them as attachments in 4 emails. I hope this works.

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Phu

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From: Wiedefeld, William G.
Sent: Thursday, October 10, 2002 5:14 PM
To: madduxm@gtlaw.com
Cc: Wenskay, Donald; Nguyen, Phu
Subject: FW: IR Streaming Patent Disclosure

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Bill Wiedefeld
Staff Engineer
WDPR Safety, Accessibility, & Advanced Technology
Voice: 407-824-7665
Pager: 407-945-9516 (Text page at www.arch.com)
Fax: 407-824-7403

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From: Nguyen, Phu
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Cc: Craven, Tom; Wiedefeld, William G.; Nguyen, Phu
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Regards,

Phu V. Nguyen, P.E.
Sr. Project Engineer
Phone: (407) 824-6506 (tie-line: 8273-6506)
Pager: (407) 945-0888

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CALCULATION SHEET

PROJECT RF Data Streaming
SUBJECT RF Sketch for Theater. (Movie)
ENGINEER Phu Nguyen DEPT. D&E/74W

CUSTOMER _____
SHEET NO. _____
DATE 4/10/02

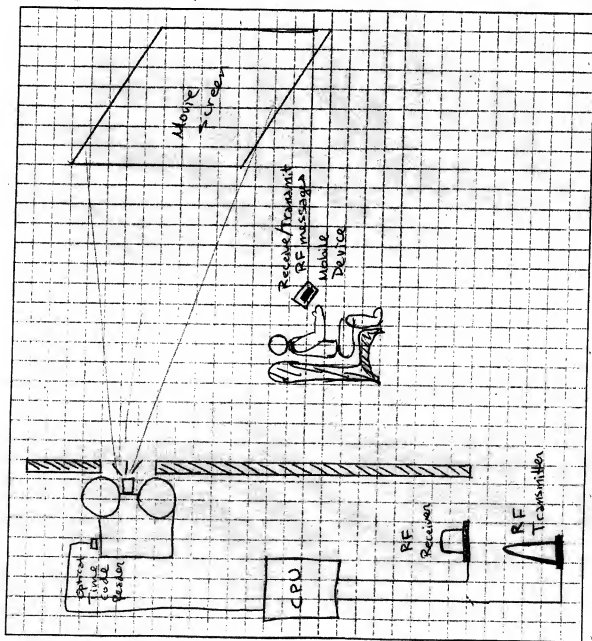


Figure 2

EXHIBIT F

Kolber, Sherry (Secy-LA-IP)

From: Nguyen, Phu [Phu.Nguyen@disney.com]
Sent: Monday, October 14, 2002 8:45 AM
To: Maddux, Margo (PatAgt-LA-IP)
Cc: Wenskay, Donald; Wiedefeld, William G; Nguyen, Phu
Subject: IR Streaming Patent Disclosure (email #3: page 9)
Attachments: PATENT Disclosure R3-9.doc

EMAIL #3

<<PATENT Disclosure R3-9.doc>>

=====

Margo,

Per your request, I'm trying again to send you the file electronically since Bill was unable to do this from his computer. I hope that the same problem does not exist on my computer. I will break up the document into smaller sizes and sending them as attachments in 4 emails. I hope this works.

Regards,

Phu

-----Original Message-----

From: Wiedefeld, William G.
Sent: Thursday, October 10, 2002 5:14 PM
To: madduxm@gtaw.com
Cc: Wenskay, Donald; Nguyen, Phu
Subject: FW: IR Streaming Patent Disclosure

Margo,

Attached is the most up-to-date version of the disclosure.

Bill Wiedefeld
Staff Engineer
WDPR Safety, Accessibility, & Advanced Technology
Voice: 407-824-7665
Pager: 407-945-9516 (Text page at www.arch.com)
Fax: 407-824-7403

-----Original Message-----

From: Nguyen, Phu
Sent: Thursday, May 30, 2002 5:18 PM

To: Wenskay, Donald
Cc: Craven, Tom; Wledefeld, William G.; Nguyen, Phu
Subject: IR Streaming Patent Disclosure

Don,

Per our conversation this morning, I am forwarding you the email that Bill had sent back in April 26, 2002. The attached file is the latest revision (revision 3) and contains all of the points of discussion during our conference call with you on April 22. The Patent Disclosure Fax that we received from your office is based on an earlier draft (April 19, 2002) and does not contain the updates that make our technology unique. **Please use the attached file in preparation of the Provisional Patent Application.** You can contact me at the following phone number if you should have any further questions.

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Walt Disney World Co.

Ride & Show Engineering

P.O. Box 10,000 • Lake Buena Vista, Florida 32830-1000 • (407) 824-7474

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SUBJECT IR sketch for Theater (Movie)
ENGINEER Phu Nguyen DEPT. D&E/74W

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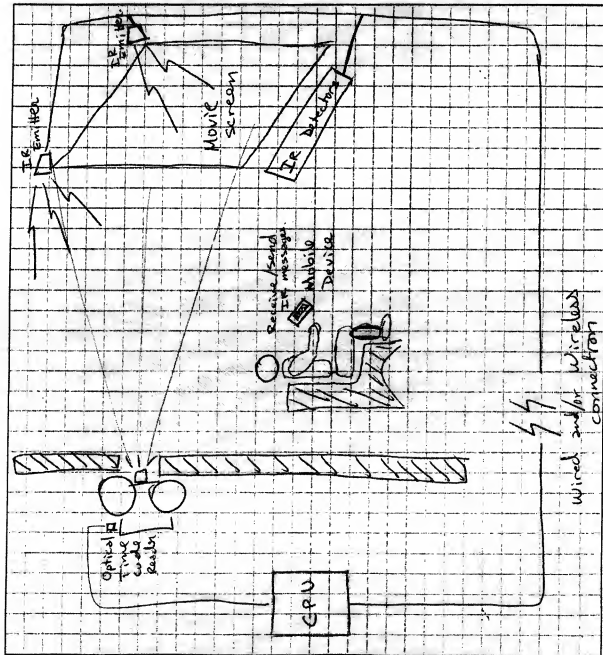


Figure 1

EXHIBIT G

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Warner Bros. World Co.

Ride & Show Engineering

P.O. Box 10,000 • Lake Buena Vista, Florida 32830-1000 • (407) 824-7474

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SUBJECT Prototype Test set Up.
ENGINEER Phil Nguyen DEPT. D&E/74W

CUSTOMER _____
SHEET NO. _____
DATE 4/10/02

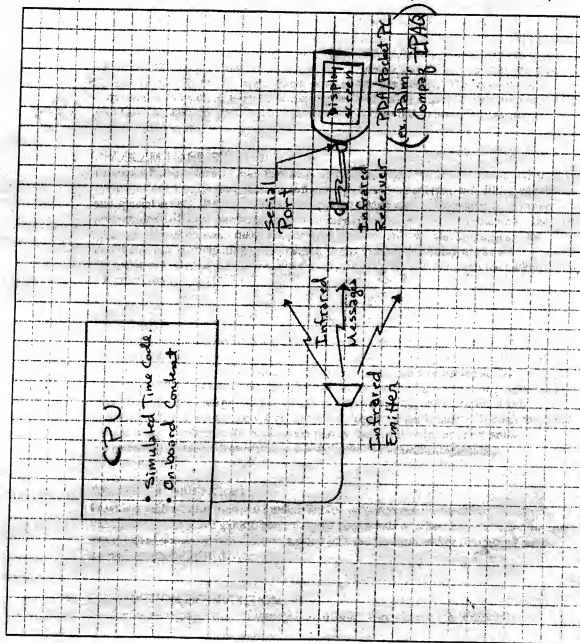


Figure 3

EXHIBIT H

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To: Maddux, Margo (PatAgt-LA-IP)
Cc: Nguyen, Phu
Subject: RE: IR Streaming Provisional
Attachments: 134748v3.DOC

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thanks!

- margo

Margo Maddux
Patent Agent
Greenberg Traurig, LLP
Los Angeles Office
Phone 310.586.7827 (direct)

Fax 310.586.0237 (direct)
madduxm@gtlaw.com

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To reply to our email administrator directly, please send an email to postmaster@gtlaw.com.

<<134748v2.DOC>>

STREAMING OF DIGITAL DATA TO A PORTABLE DEVICE

By

Phu V. Nguyen

William G. Wiedefeld

Greg B. Hale

BACKGROUND

1. Field of the Invention

The present invention relates generally to the use of infrared and/or radio frequencies to stream digital data to portable devices in a mass audience or in designated broadcast area.

2. Description of the Background Art

There are several circumstances which may interfere with a person's ability to hear, and thereby interfere with the presentation of information to the listener. For example, persons with hearing loss may miss narratives, sound effects, music and other sound material related to the presentation, and messages in live performances, films, television and special events. Persons who do not speak the language or languages used in the presentation may miss narratives and other related messages that are presented. The language barrier prevents many people from different cultures and languages from understanding, participating or interacting with the information being presented. Background environmental noise may also affect a person's ability to hear, and thereby diminish the effect of the presentation. Additionally, presentations often could be made more effective if they included a method to provide interactivity between the audience and the presenter(s).

Captioning systems have been used in many venues including museums, theaters and other auditoriums to provide foreign language translation or captioning for

the hearing impaired. These systems are either 1) "open captioning" on a projected surface or large adjacent display area where the entire audience can see the captioning; 2) reflective captioning using a transparent but reflective panel to display the text from a rear projection while allowing the viewer to see the display or performance through the panel; or, 3) hard-wired displays in the back of the seat in front of the viewer.

Wireless streaming systems also exist. These consist of modulated analog and digitized audio broadcasting systems such as assistive listening systems and wireless headphones. Also short-range (often 1 meter or less) digital transceivers are typically used to exchange data between computers or between computers and peripherals. These systems do not synchronize multiple units.

SUMMARY OF THE INVENTION

It is therefore an object of this invention to provide a method of presenting random and/or synchronized information such as narratives, translations, interactive games, control signal commands or other show related messages, to patrons of shows, movie theaters, exhibit halls, auditoriums and/or designated areas through an unobtrusive device.

The present invention makes use of infrared (IR) emission and/or radio frequency (RF) transmission to stream data to a portable device for closed captioning, language translation for multi-cultural language groups, previews, games, control of devices and/or similar applications. The portable captioning device could be carried by a person and/or the device could be placed in a fixture for hands free use. Before or at the time of the start of a presentation or presentations, the IR/RF system will start the transmission of data to the portable units. The transmission will synchronize the portable device with the presentation or presentations for captioning, language translation, previews, games, control of devices and/or similar applications. The portable device might be based on

existing technologies such as mobile phone, personal digital assistant (PDA) or a combination of both mobile phone and PDA, a custom designed device specifically for this application, or an interactive device. This system can be combined with an existing audio stream for the hearing impaired, descriptions for the blind and/or language translation. For example, the invention may provide for infrared streaming for assistive listening systems.

Possible user device implementations include a custom portable text display terminal having a receiver, display controller, micro-controller, small amount of memory, and power source. Similarly, a custom audio unit having a receiver, digital-to-analog converter, audio amplifier, and speaker, could also be used.

Other devices include talking or motorized toys and games capable of receiving content appropriate to a presentation. Such devices may also allow interaction with nearby units. Special effects units having some combination of lights, audio effects, or animations could also be used. These units could be held by the user or mounted in the presentation space as a remotely controlled device. Still other devices include a digital map or way-finding unit, messaging system that allows the user to broadcast and receive data to and from nearby units, or user identification unit that broadcasts user identity, preferences, or location to nearby units.

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The present invention provides several benefits over prior art systems. Prior art systems are not aware of user preferences, such as the user's language, gender, age, etc. Prior art wireless audio systems suffer from signal loss and deterioration of the transmitted audio when the user moves relative to the infrared transmitter. Existing digital wireless audio systems do not have provisions for mixing text or control data in the audio data stream.

The present invention provides for a combination of features not found in prior art wireless data communication systems. For example, the system and method of the present invention allows multiple users' devices to simultaneously receive identical data and remain synchronized with the presentation(s). User devices are able to receive different types of data, such as audio, animation control, text, etc. during a single transmission. User devices are furthermore able to interact with the presentation, interact with the presenters, or interact with each other.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic view of a system of the invention utilizing IR signals.

Fig. 2 is a schematic view of a system of the invention utilizing RF signals.

Fig. 3 is a schematic view of a portable display device receiving an IR signal.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Reference will now be made in detail to an exemplary embodiment of the present invention, an example illustrated in the accompanying drawings. It is to be understood that other embodiments may be utilized and structural and functional changes may be made without departing from the respective scope of the present invention.

The hardware requirements of the preferred embodiment of this system are depicted in Figs. 1 and 2. A time code reader 10, which in this embodiment is an optical time code reader, is capable of reading time codes from a show device 12 such as a film projector, show control computer or another media source. A central processing unit (CPU) 14 receives the time code signal from the reader 10 and synchronizes the content with the film and/or presentation, which may be a movie screen 15. Examples of content are text captioning, language translation, games and/or other related applications. The central processing unit 14 has the capability to access and interpret the content. The

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content can reside in the internal memory of the central processing unit 14 and/or as a removable memory media.

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The CPU 14 will deliver the synchronized data to the infrared (IR) emitters 16, which are capable of delivering IR messages or control data to a portable device 18, which may be operated either in an indoor or outdoor environment. Alternatively, a low-powered licensed and/or non-licensed radio frequency (RF) system can also be used to deliver the synchronized data to the portable device via an RF signal. Fig. 2 depicts an RF receiver 24 and RF transmitter 22, which interact with a portable RF capable device 24 to achieve the same results as the IR system previously described.

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The portable display device 18, 24 has sufficient memory to allow storage of all data to be presented. All required data may be transmitted to the device 18, 24 in one session for display at predetermined times after receipt of a start signal, or the data may be transmitted in a plurality of sessions for display in real time. The device 18 includes infrared ports capable of receiving and/or emitting infrared messages. Messages emitted from the portable display device 18 are read by one or more IR detectors 19. In an alternative embodiment, the device 18 could also contain RF receiver and/or transmitter ports capable of receiving and transmitting RF messages. The portable device 18 will receive the IR or RF signal and convert the signal to information that can be stored and/or displayed in sync with the presentation. The device 18 and 24 may also contain the capability to receive and play audio such as for assistive listening and/or audio language translations, or program material specific to the presentation.

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The system could also recognize show/presentation start and/or end signals. The system could then transmit random and/or synchronized information to the patrons possessing a device. This will allow the patrons to interact with the device while waiting for the show/presentation to start or after the show/presentation has ended.

One possible application of the invention is depicted in Fig. 3. In this application, time code information is read by the CPU 14, which then accesses on board content, and delivers the synchronized data to the infrared emitters 16, which are in turn capable of delivering IR messages. A portable device 24 receives the IR messages and converts the IR messages to presentable data. In this instance, the IR receiver 19 is a modification to an existing device such as a PDA (for example, a Palm type device) and/or a pocket PC (for example, a Compaq iPAQ) that can store and/or immediately display the data. The IR receiver takes the IR signal from the emitter and translates it to an electronic signal for the serial port 22 of the PDA and/or pocket PC. A terminal software program converts the electronic signal into data that is presented as text on the display screen 26.

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This invention may be adapted for uses such as text captioning and language translation in movie or live theaters, consumer products which can provide an interactive experience, and to provide a wireless link for control signals to equipment, devices or products which are used in public presentations.

CLAIMS

1. A method for displaying content data on a readable display in conjunction with a media presentation comprising the steps of:

displaying media presentation data, said media presentation data including time prompts;

said content data having sequences correlated to the time prompts;

detecting the time prompts in the media data; and

transmitting to the readable display the sequence of content data associated with a detected time prompt.

2. The method of claim 1 wherein the transmitting is by way of an IR signal.

3. The method of claim 1 wherein the transmitting is by way of an RF signal.

4. The method of claim 1 wherein the transmitting is by way of a wired connection.

5. The method of claim 1 wherein the media data are prerecorded.

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6. The method of claim 1 wherein the media data are from a live performance.

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7. The method of claim 1 further including the step of storing the content data in a memory device.

8. The method of claim 1 wherein the time prompts are optically readable.

9. A method for presenting content data on a user device (or multiple user devices)

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comprising the steps of:

providing content data at a predetermined time;

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providing time prompts on a film;

detecting the time prompts on the film;

correlating content data with the time prompts; and

at a given time prompt, transmitting the correlative content data to the user

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device.

10. A method for displaying content data on a readable display comprising the steps of:

providing content data to be displayed at a predetermined time;

providing media presentation data having time prompts;

said content data correlated with the time prompts;

detecting the time prompts in the media presentation data;

at a given time prompts, transmitting the correlative content data to the readable display; and

displaying the content data on the readable display.

11. A method for displaying information on a readable display comprising the steps of:

storing information to be displayed at a predetermined time;

displaying media data, said media data including time prompts;

said information correlated to at least one of the time prompts; and

at a given time prompt, transmitting the correlative information to the readable display.

12. A method for interactive communication in conjunction with a media presentation comprising the steps of:

providing a content display device having a readable display;

storing content data for display;

presenting media presentation data having time prompts;

said content data having sequences correlated to the time prompts;

detecting the time prompts in the media presentation data;

transmitting to the readable display the sequence of content data correlated with a detected time prompt; and

providing inputs on the content display device adapted to receive information from a viewer.

13. An apparatus for streaming digital data to a portable device during a media presentation comprising:

a memory device storing the digital data prior to transmission;

~~a wireless emitter transmitting the digital data;~~

~~a wireless receiver on the portable device receiving the digital data;~~

time prompts in the media presentation;

a time prompt detector;

a data processor associating the detected time prompts to the digital data according to predetermined rules; and

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transmitting digital data correlated with the time prompts from the wireless emitter
to the wireless receiver.

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\\LA-SRV01\DarrowC\134748v02\54317.011200

Kolber, Sherry (Secy-LA-IP)

From: Nguyen, Phu [Phu.Nguyen@disney.com]
Sent: Wednesday, October 23, 2002 11:58 AM
To: Maddux, Margo (PatAgt-LA-IP)
Cc: Nguyen, Phu; Wiedefeld, William G
Subject: RE: IR Streaming Provisional

Margo,

Bill and I are in close communications. Any updates from Bill includes my edits also. Please move ahead with your next draft.

Regards,

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I will wait to see if Phu has any comments before sending you another draft.

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Phone 310.586.7827 (direct)
Fax 310.586.0237 (direct)
madduxm@gtlaw.com

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Fax 310.586.0237 (direct)
madduxm@gtlaw.com

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